

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/38125

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G09B 23/08
US CL : 73/866.4, 434/267,270,274, 223/66,67

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
US Patents, US Pregrant Publications, EPO, JPO, DERWENT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,010,223 A (ALDERSON, Samuel W.) 28 November 1961 (28.11.1961), see entire document.	1-6, 10-21, and 23-39
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Y		7-9 and 23
X	FR 2,641,398 A1 (REGIE NATIONALE DES USINES RENAULT) 06 July 1990 (06.07.1990), see entire document.	1,2,3,39
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Y		4-38
X	US 3,557,471 A (PAYNE et al.) 16 September 1968 (16.09.1968), see figure 1, figure 3, column 3 - lines 37-64, column 4 - lines 37-55.	5, 10-35, and 39
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Y		1-4, 36-38
Y	FR 958,776 (DAMOUR PUBLICITE) 16 March 1950 (16.03.1950), see figures 1 and 3.	3, 6, 7, 9, 10-14, 16, 17, 19-21, 23, 26-31,
Y	US 2,288,296 A (MUNRO, Harold W.) 30 June 1942 (30.06.1942), see figure 1, figure 5, column 4 - lines 39-55.	2, 3, 6, 7, 9, 10, 12-14, 16, 17, 19-21, 23, 33, 34, 37,

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

25 February 2005 (25.02.2005)

Date of mailing of the international search report

04 APR 2005

Name and mailing address of the ISA/US

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3,890,723 A (HAURAT et al.) 24 June 1975 (24.06.1975), see entire document.	2, 6-8, 35, 37,
Y	US 4,438,650 (MEEK, Larry F.) 27 March 1984 (27.03.1984), see entire document.	1-39
Y	US 2,451,023 A (DUSKO, Joeseph R.) 12 October 1948 (12.10.1948), see entire document.	1-39
Y	US 4,268,991 A (COTEY et al.) 26 May 1981 (26.05.1981), see figures 1-7, column 2 - lines 30-57.	1-39
X	US 3,361,310 A (ZIEGLER et al.) 02 January 1968 (02.01.1968), see figure 1 and figure 4.	39
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Y		4, 5, 10, 11, 25-30, 33-35,
X	US 4,261,113 (ALDERSON, Samuel W.) 14 April 1981 (14.04.1981), see figures 1-3.	39
—		-----
Y		5-8, 13-20
A	US 4,820,231 A (MIKITKA et al.) 11 April 1989 (11.04.1989), See figure 1, column 5 - lines 3-15, column 5 - lines 50-56.	
A	US 6,688,940 B2 (STANIER, John S.) 10 February 2004 (10.02.2004), see figure 8.	
A	EP 0472365 A1 (LAUER TOYS INC.) 26 February 2002 (26.02.1992).	
A	US 2002/0107431 A1 (MORE, Rex) 18 August 2002 (18.08.2002), see figures 1-13; paragraphs 123,128-154, 158.	
A	US 6,206,703 B1 (O'BANNON Terry R.) 27 March 2001 (27.03.2001), see entire document,	
A	US D480,763 S (DYKSTRA, Ronald L.) 14 October 2003 (14.10.2003), see figures 1-6.	

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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Continuation of B. FIELDS SEARCHED Item 1:

73/866.4, 434/267,270,274, 223/66,67

600/38

D20/10-99

446/330,373,376